103 I. BASE CASE 101 **MAXIMUM** MEASURABLE BEND IN TUBE Fig. 1A ÍOZ 103/1 **∭103** II. TARGET SIZE INCREASED BY 150% 101 Fie. 18 102 **TOTAL BEND** OF TUBE
WITH MAXIMUM
DISPLACEMENT 1034 1011 AT TARGET 103 III. DISTANCE FROM LED TO TARGET DECREASED TO 75% Conclusion: The amount of bend measurable by a pair is proportional to the size of the target divided by the distance from LED to target. Fig. 1C 102

Docket No.: 3586.1000-001

SENSOR TUBES AND RESOLUTION

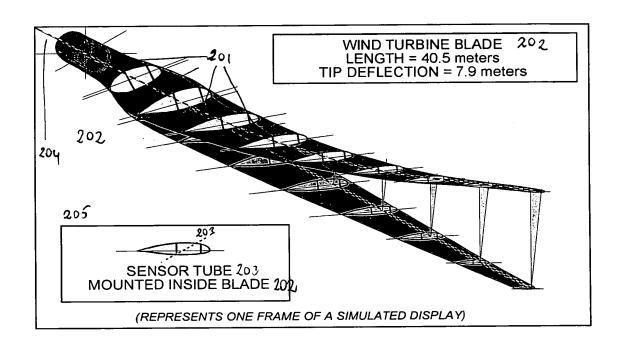


FIG. 2: ISOMETRIC VIEW OF WINDMILL BLADE WITH THE SENSOR TUBE AND EXTERNAL DISPLAY

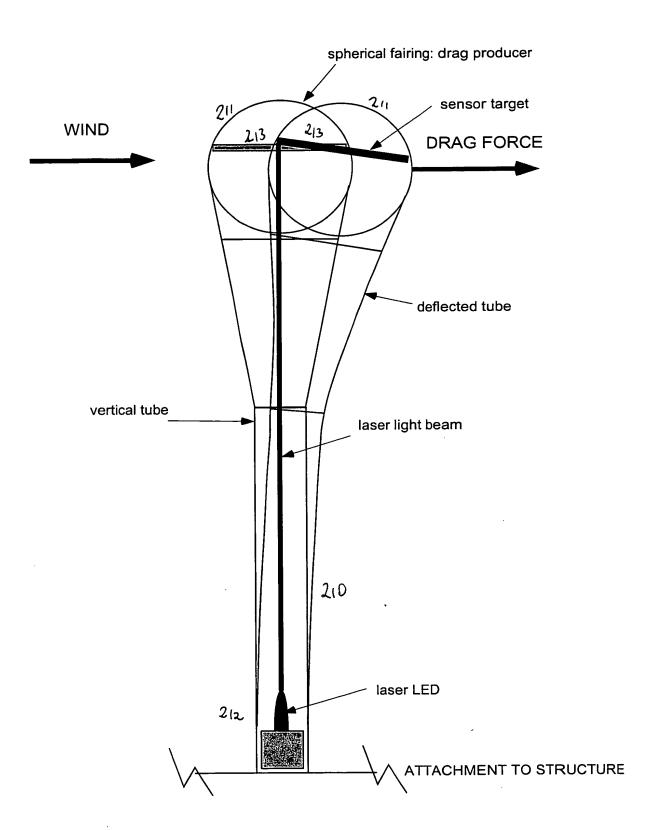


FIGURE 2a: ANEMOMETER DESIGN

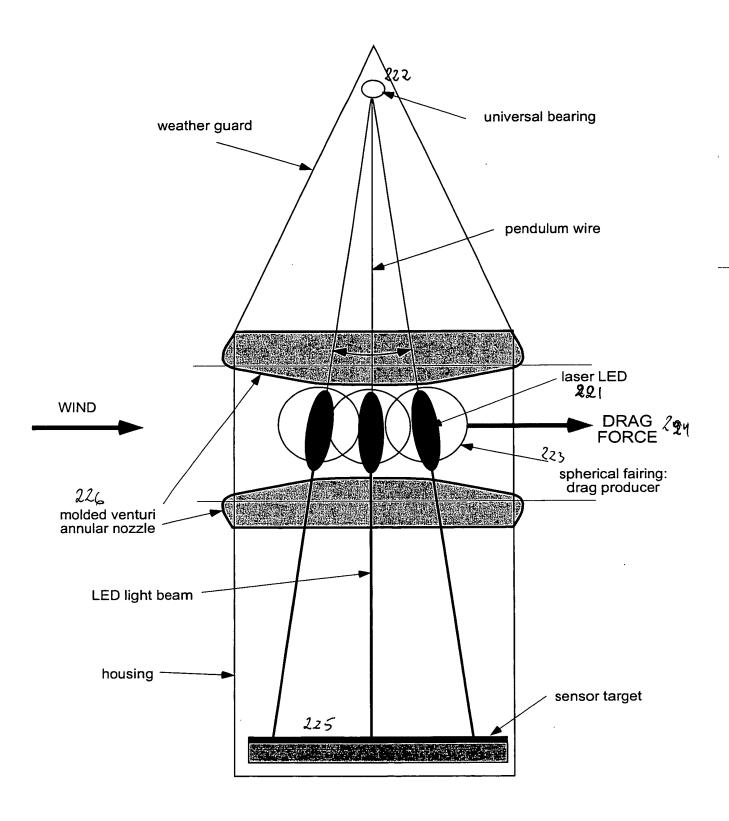
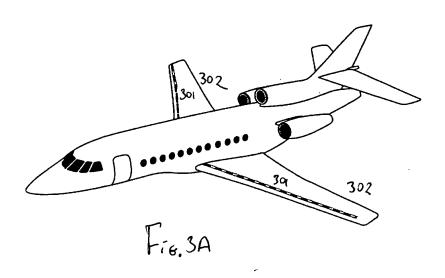


FIGURE 2b: ANEMOMETER DESIGN ALTERNATE



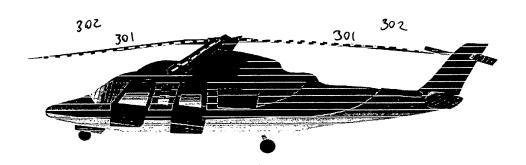
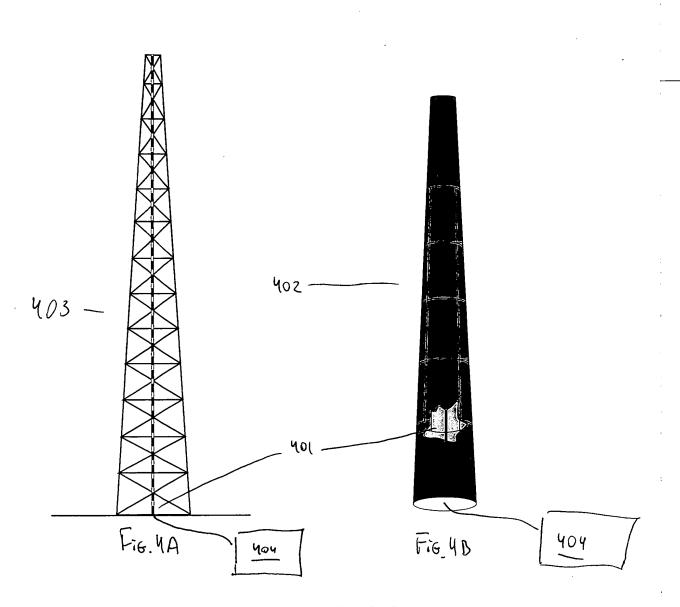
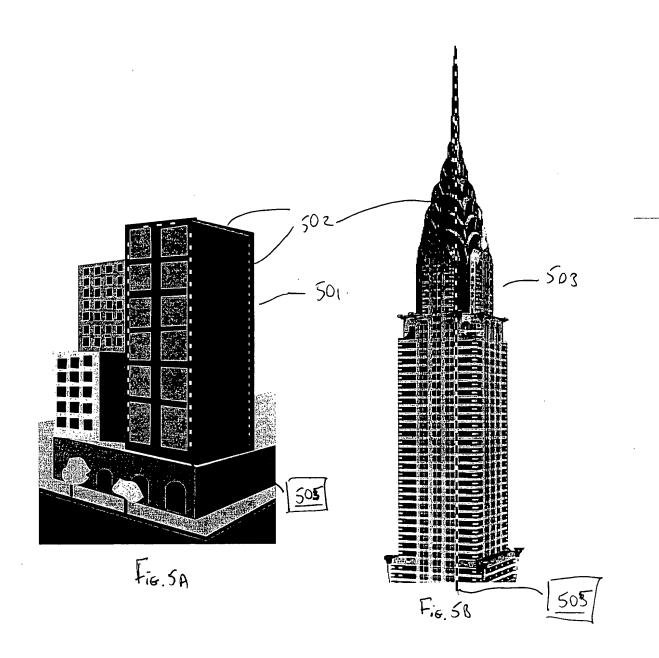


FIG. 3 $\hat{\mathbf{b}}$ AIRCRAFT APPLICATIONS

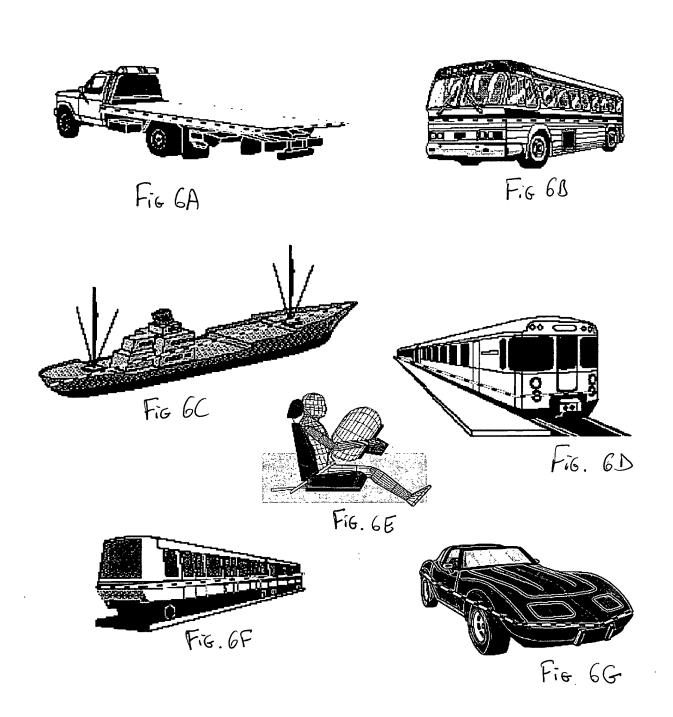


TOWER APPLICATIONS

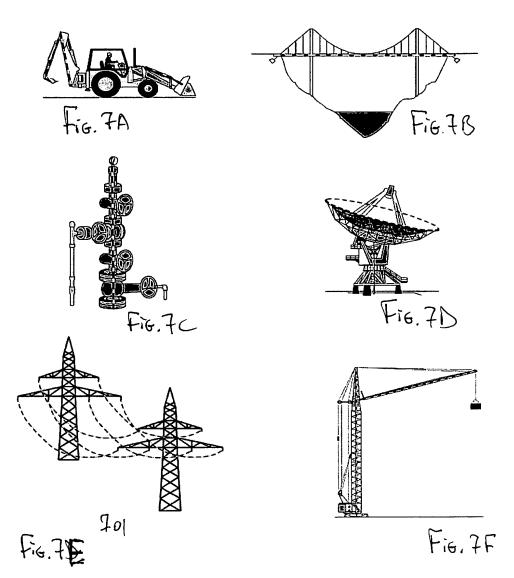
Docket No.: 3586.1000-001
Title: Optical Measurement Device...
Inventors: Daniel F. Handman, et al.



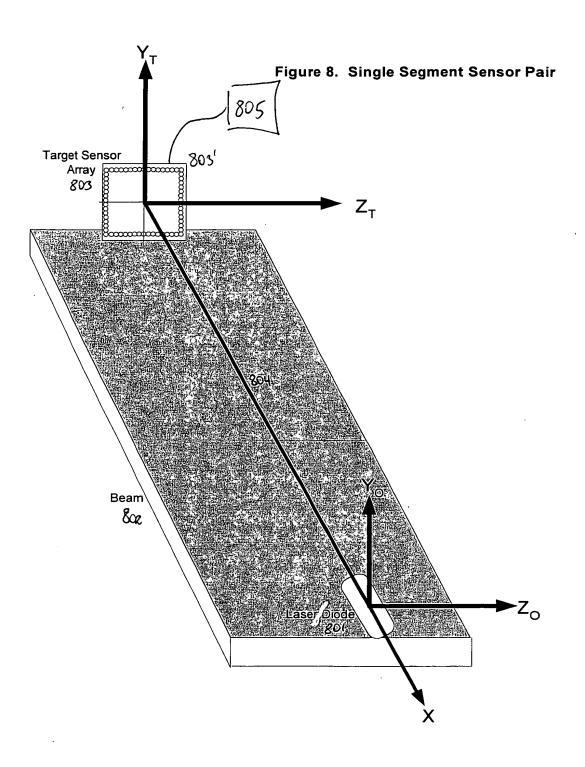
BUILDING APPLICATIONS

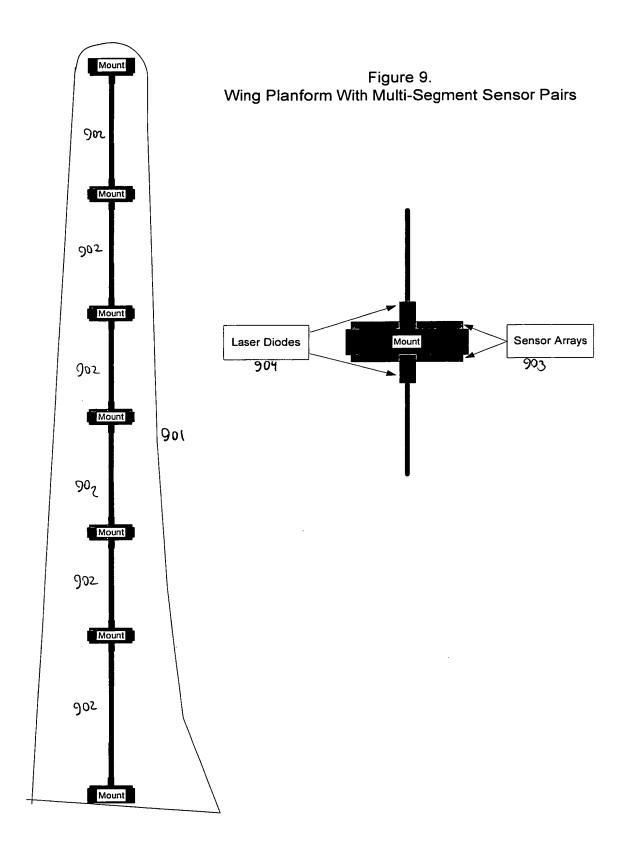


.: TRANSPORTATION VEHICLE APPLICATIONS



... UTILITY LINE SAG MONITOR AND OTHER CIVIL ENGINEERING USES





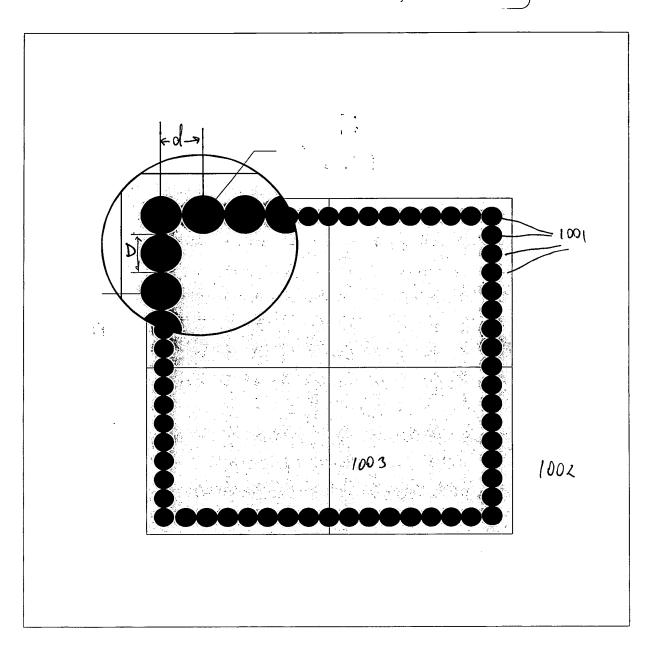


FIGURE 10: SENSOR TARGET ARRAY

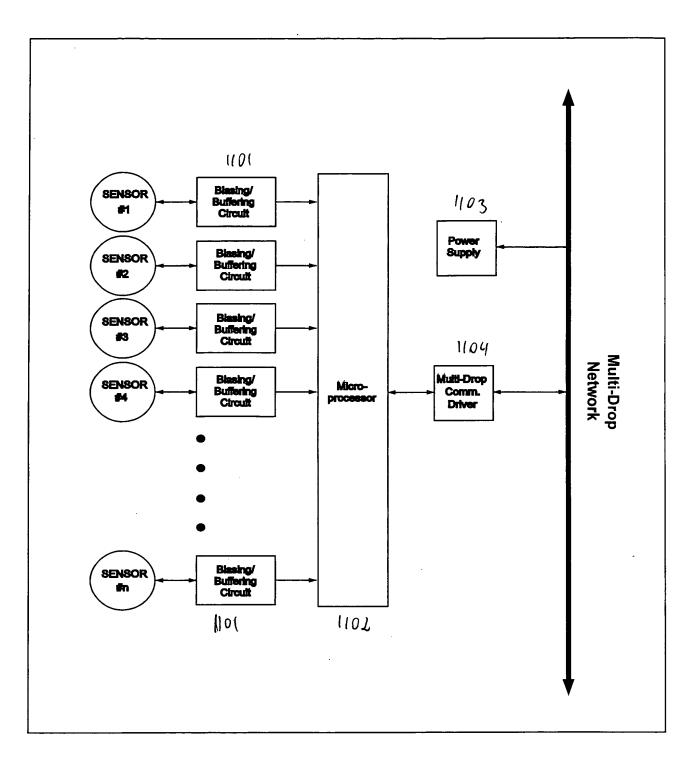


FIGURE 11: SENSOR CIRCUIT BLOCK DIAGRAM

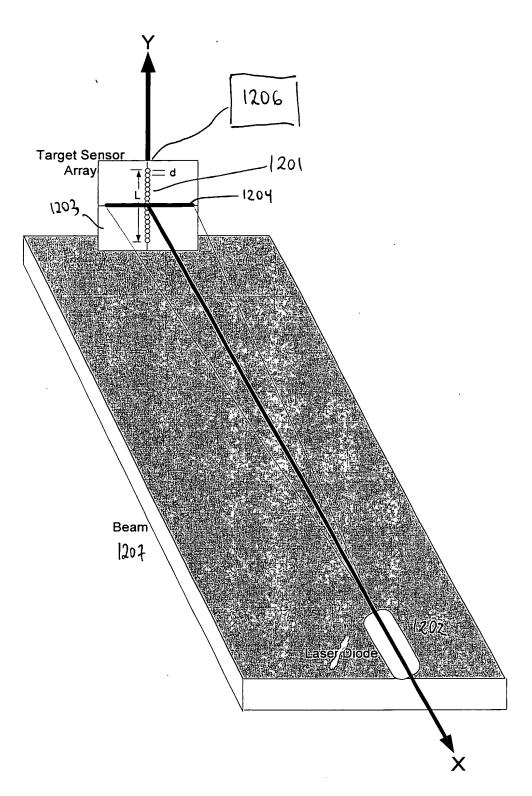
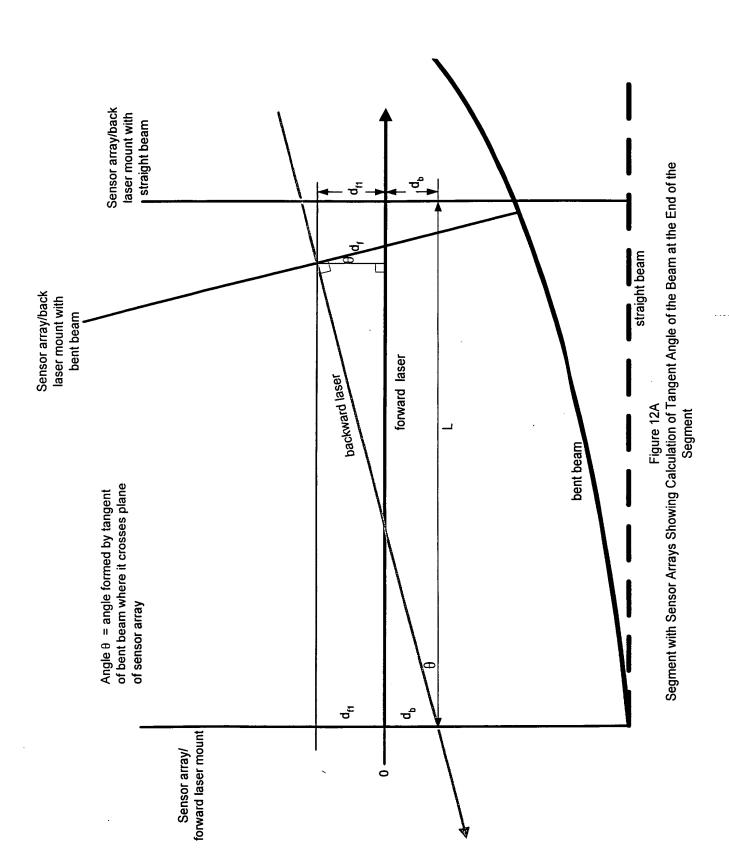
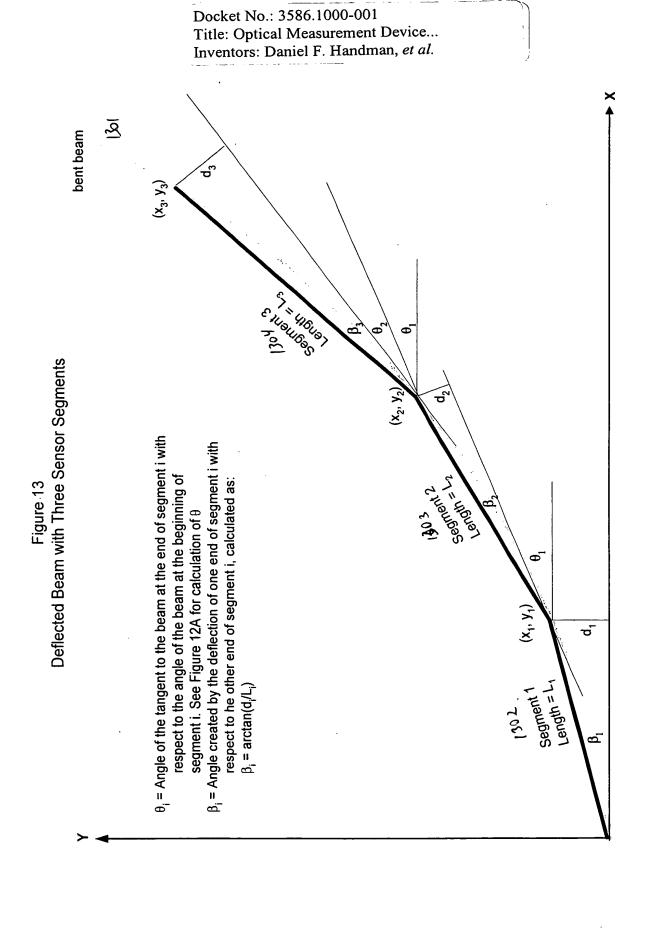
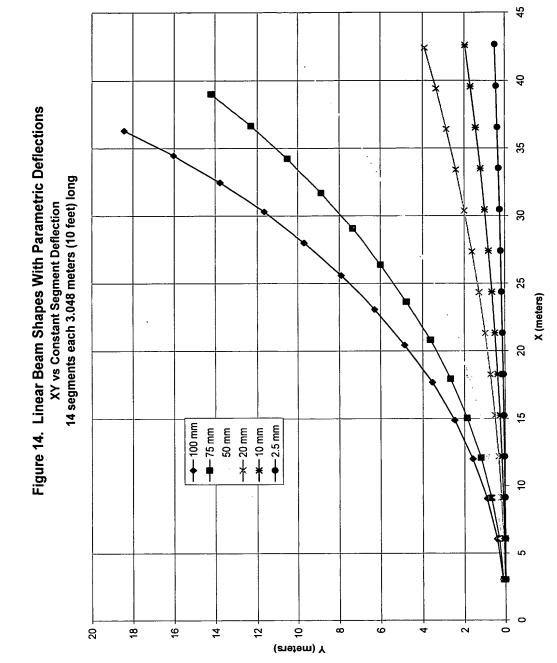


Figure 12.
Single Segment, Single Axis Measurement Isometric View

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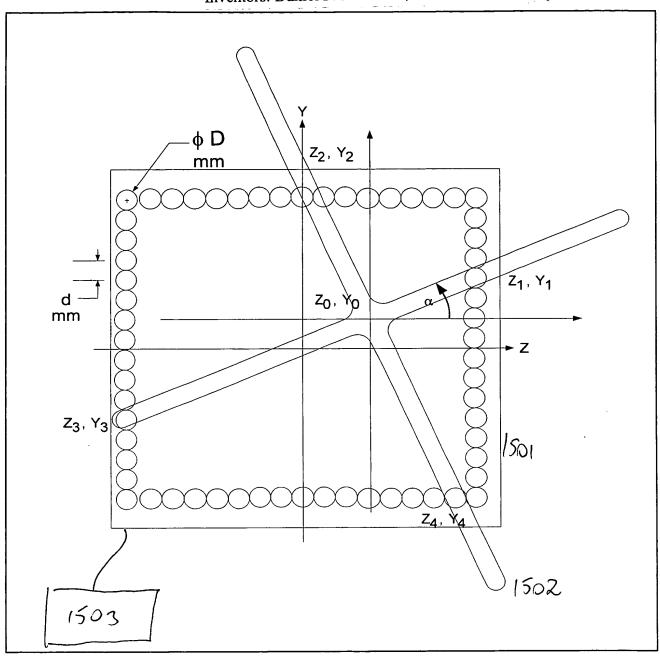


FIGURE 15: THREE-AXIS LASER CROSSHAIRS AND SENSOR TARGET

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